

WHAT IS CLAIMED IS:

1. A transmissive screen comprising a Fresnel lens portion having Fresnel lens components on the light-exiting face thereof, a microlens array portion disposed at the light-exiting face side of the Fresnel lens portion and having many microlenses on the light-incident face, and a light diffusing portion disposed between the Fresnel lens portion and the microlens array portion.

2. The transmissive screen according to Claim 1, wherein the light diffusing portion diffuses light substantially at the surface thereof.

3. The transmissive screen according to Claim 1, wherein the light diffusing portion has a haze value ranging from 5% to 99%.

4. The transmissive screen according to Claim 1, wherein the light diffusing portion has a gloss value ranging from 5% to 65%.

5. The transmissive screen according to Claim 1, wherein the light diffusing portion has a surface having substantially conical irregularities.

6. The transmissive screen according to Claim 1, wherein the light diffusing portion comprises a resin sheet whose one surface is roughened.

7. The transmissive screen according to Claim 1, wherein the microlenses have a diameter ranging from 10 μm to 150 μm .

8. The transmissive screen according to Claim 1, wherein the microlens array portion has microlenses arrayed in the vertical and horizontal directions such that the adjacent microlenses have common edges and the microlens array is rotated by 45°.

9. A rear projector comprising an optical projection unit and a transmissive screen according to Claim 1.